BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Market Building At Jp Park in Ward No 17

Measurement Sheet

Second and Part Bill

Item No.	21	84/01, 80/01, 16/02,

Item Name: Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete inclusive of cost of steel and fabrication charges Ready mixed Cement concrete for Beams, Staircase and Roof with M 30 Third Floor

	CHAINAGE Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Third Floor								
	Grid A 1 to 21	19.00	0.60			0.30	3.150	10.73	
	Grid B 1 to 21	12.00	0.60			0.30	3.150	6.80	
	Grid C 1 to 21	11.00	0.60			0.30	3.150	6.24	
	Lift Column	4.00	0.45			0.20	3.150	1.13	
	Grid F 1 to 21	18.00	0.60			0.30	3.150	10.21	
	Grid G 11	1.00	0.45			0.20	3.150	0.28	
	Slab Area	1.00	57.80			16.80	0.150	145.65	
		1.00	5.10			1.50	0.150	1.15	
	Deduction(-)								
	Staircase area	2.00	1.50			3.50	0.150	1.58	
		1.00	1.50			2.60	0.150	0.59	
	Duct	1.00	0.55			1.25	0.150	0.10	
	Lift	1.00	1.80			2.14	0.150	0.58	
	Beam								
	B-1,2,3	1.00	57.80			0.20	0.300	3.47	S.O. (2
	B-4	1.00	5.80			0.15	0.300	0.26	S.O. 2
	B-5 & 7	2.00	59.30			0.30	0.300	10.67	
	B-6	1.00	6.10			0.20	0.300	0.37	
	B-8	1.00	3.50			0.20	0.300	0.21	
	B-9	2.00	1.80			0.20	0.300	0.22	
	B-10	1.00	3.00			0.20	0.300	0.18	
	B-12A	1.00	0.65			0.20	0.300	0.04	
	B-13	2.00	3.30			0.20	0.300	0.40	
		2.00	2.90			0.20	0.300	0.35	
	B-14,15 & 14A	1.00	57.80			0.20	0.300	3.47	
	B-14B	1.00	57.80			0.15	0.300	2.60	
	B-16	1.00	15.05			0.20	0.300	0.90	
	B-16A	1.00	4.70			0.20	0.300	0.28	
	B-17	1.00	15.05			0.30	0.300	1.35	
	B-18	7.00	15.05			0.30	0.300	9.48	
	B-18A	5.00	15.05			0.30	0.300	6.77	
	B-19	1.00	15.05			0.30	0.300	1.35	
	B-20	1.00	15.05			0.30	0.300	1.35	

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	B-21	2.00	2.85			0.15	0.300	0.26	
	B-22	1.00	6.60			0.20	0.300	0.40	
	B-23	1.00	2.54			0.20	0.300	0.15	
	B-24	1.00	15.05			0.30	0.300	1.35	
	B-25	1.00	7.80			0.30	0.300	0.70	
	B-26	1.00	15.05			0.20	0.300	0.90	
	Stair case								
	Midlanding	1.00	6.10			0.30	0.450	0.82	
	First Flait	1.00	2.40			1.50	0.175	0.63	
	Landing	1.00	1.70			1.50	0.175	0.45	
	Second Flait	1.00	2.70			1.50	0.175	0.71	
	Landing	1.00	1.65			1.50	0.175	0.43	
	Riser	17x1/2	0.30			1.50	0.150	0.57	
	Third Flait	1.00	1.90			1.50	0.175	0.50	
	Riser	7x1/2	0.30			1.50	0.150	0.23	
	Lintels								
	Door	1.00	1.80			0.20	0.20	0.07	
	Windows	33.00	2.60			0.20	0.20	3.43	
	Ventilators	10.00	0.90			0.20	0.20	0.36	
							Total Qty Work Done	**235.10**	**Cum**
							Qty Reserved	**46.10**	
							Qty Limited Payable in this bill	**189.00**	**Cum**

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No: **22** 16/02, 12/02,

Item lame: Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges -Ready mixed Cement concrete for Beams, Staircase and Roof with M-30 Terrece Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Terrace Floor								
Column	4.00	0.30			0.60	3.200	2.30	
	4.00	0.23			0.45	3.200	1.32	
	1.00	0.20			0.45	3.200	0.29	
Roof Beam								
5B1	1.00	6.10			0.20	0.450	0.55	
5B2	1.00	6.10			0.23	0.450	0.63	
5B3	1.00	6.10			0.20	0.450	0.55	
5B4	1.00	5.60			0.30	0.450	0.76	
5B5	1.00	5.60			0.20	0.450	0.50	
5B6	1.00	2.37			0.20	0.450	0.21	
5B7	1.00	5.60			0.30	0.450	0.76	
Slab								
	1.00	6.10			2.30	0.150	2.10	
	1.00	6.10			2.14	0.150	1.96	
	1.00	6.10			1.49	0.150	1.36	
						Total Qty Work Done	**13.30**	**Cum**
						Qty Limited Payable in this bill	**13.30**	**Cum**

Total 13.29

Contractor Representative

Consultant Representative

B.K. Ramkumar
Assistant Engineer
RR Nagara Division (Project) 12/02

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No: **26** 18)

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - First Floor

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	First Floor								
	Door	1	1.20			0.20		0.24	
		2	1.80				0.20	0.72	
	Windows	19	1.50			0.20		5.70	
		38	2.10					0.20	16.90
	Windows	1	2.00			0.20		0.40	
		2.00	2.60				0.20	1.04	
							Total Qty Work Done	**437.18**	**Sqm**
							Last Bill Qty	**413.12**	**Sqm**
							Qty Limited Payable in this bill	**24.06**	**Sqm**

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Contractor Representative

CIVIL QUALITY CONSULTANTS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

SB 488.20

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BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No:	27	18
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 - Second Floor	

Second Floor / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Second Floor								
Door	1	1.20			0.20		0.24	
	2	1.80				0.20	0.72	
Ventilators	10	0.60			0.20		1.20	
	20	0.90				0.20	3.60	
Windows	33	2.00			0.20		13.20	
	66.00	2.60				0.20	34.32	
						Total Qty Work Done	**53.28**	
						Last Bill Qty	**383.93**	
						Schedule B Qty	**406.70**	
						Reserved Qty	**30.51**	**Sqm**
						Qty Limited Payable in this bill	**22.77**	**Sqm**

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer

R Nagara Division (Project)

Asst.Executive Engineer

RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No: **28** 28

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam haunching cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - Third Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Second Floor								
Door	1	1.20			0.20		0.24	
	2	1.80				0.20	0.72	
Ventilators	10	0.60			0.20		1.20	
	20	0.90				0.20	3.60	
Windows	33	2.00			0.20		18.00	
	66.00	2.60				0.20	29.52	
Total Qty Work Done							**53.28**	**Sqm**
Reserve Qty								**Sqm**
Qty Limited Payable in this bill							**53.28**	**Sqm**

406.70

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No:	29	U/03

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - Terrece Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Terrace Floor								
Roof Beam								
5B1	1.00	6.10			0.20		1.22	
	2.00	6.10				0.450	5.49	
5B2	1.00	6.10			0.23		1.40	
	2.00	6.10				0.450	5.49	
5B3	1.00	6.10			0.20		1.22	
	2.00	6.10				0.450	5.49	
5B4	1.00	5.60			0.30		1.68	
	2.00	6.10				0.450	5.49	
5B5	1.00	5.60			0.20		1.12	
	2.00	5.60				0.450	5.04	
5B6	1.00	2.37			0.20		0.47	
	2.00	2.37				0.450	2.13	
5B7	1.00	5.60			0.30		1.68	
	2.00	5.60				0.450	5.04	
						Total Qty Work Done	42.97	Sqm
						Qty Limited Payable in this bill	42.00	Sqm

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRIHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Mortuary Building At Jp Park in Ward No 37

Measurement Sheet

Second and Part Bill

Item: 39 2.5m

No.

Item: Providing and removing centering, shuttering, striuting, propping etc. for columns pillars, piers, abutments, post and struts square rectangular polygon in plan including cost of all materials, labour complete as per specification. Third Floor

CRH/Mark/Description of Work	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	Remarks
Column Second Floor								
Grid - A - 1 to 21	1x19	1.800				3.150	107.73	
Grid - B - 1 to 21	1x22	1.800				3.150	124.54	
Grid - C - 1 to 21	1x21	1.800				3.150	119.07	
Grid - F - 1 to 21	1x19	1.800						
Grid - G - 11	1x1	1.300				1.150	4.71	
Lift	1x4	1.300				3.150	14.18	
					Total Qty Work Done		3501.68	Sqm
					Qty Payable in this bill		3501.68	Sqm

Contractor Representative

Consultant Representative

Executive Engineer
KR Nagara Division (Project)

Asst.Executive Engineer
KR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

e of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

m :	40	15/02,

m ne: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 -Terrece Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Terrace Floor								
Column	4.00	1.80				3.200	23.04	
	4.00	1.36				3.200	17.41	
	1.00	1.30				3.200	4.16	
						Total Qty Work Done	44.61	Sqm
						Reserved Qty	15.51	
						Qty Limited Payable in this bill	29.10	Sqm

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

me of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

tem No: **44** 1&2

tem me: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level -Third Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Secound floor	1x1	16.800	57.800				971.04	
	1x1	5.100	1.500				7.65	
Deductions								
Staircase	1x2	1.500	3.500				-10.50	
	1x1	2.600	1.500				-3.90	
Duct	1x1	5.500	1.250				-0.69	
Lift	1x1	1.800	2.140				-3.85	
Columns	1x42	0.300	0.600				-7.56	
	1x14	0.300	0.300				-1.26	
	1x42	0.230	0.450			940.41	-0.41	4.34
						Total Qty Work Done	**950.52**	**Sqm**
						Reserve Qty	**84.72**	**Sqm**
						Qty Limited Payable in this bill	**865.80**	**Sqm**

RQ = 74.61

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QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

me of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

tem No:	45	11/2,

tem ame: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level -Terrece Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Terrace Floor								
Slab							14.03	
	1.00	6.10			2.30		13.95	
	1.00	6.10			2.14		9.09	
	1.00	6.10			1.49		36.17	Sqm
						Total Qty Work Done	36.17	Sqm
						Qty Payable in this bill	36.17	Sqm

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

me of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

em	49	192.
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em Providing and removing centring, shuttering, strutting, proping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per
me: specification and directed by the Engineer in Charge -Third Floor to Terrece Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Staircase - SF to TF								
Z beam side	1x1	5.400				0.450	2.43	
	1x1	5.400				0.275	1.49	
Bottom	1x1	5.400			0.300		1.62	
7th Flait	1x1	1.900			1.500		2.85	
Landing	1x1	2.200			1.500		3.30	
Side	1x1	4.000			0.375		1.20	
8th Flait	1x1	2.700			1.800		4.86	
Landing	1x1	1.650			1.500		2.48	
9th Flait	1x1	1.900			1.500		2.85	
Steps (Riser)	1x24	1.500			0.125		4.68	
						Total Qty Work Done	28.09	Sqm
						Reserved qty	6.79	
						Qty Limited Payable in this bill	21.30	Sqm

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Description	Unit	Dia	No.	Length	Breadth	Depth	Quantity	Remarks
Reinforcement Work								
Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. .								
FOR TMT Bars Fe- 500 - First Floor								
First Floor Lintels								
Window- Main bars	mt	12mm	4X18	2.10			134.27	
Window - Ring	mt	8mm	16X18	0.90			102.38	
Window - Main bars	mt	12mm	4X1	2.60			9.24	
Window - Ring	mt	8mm	1X20	0.90			7.11	
Door - Main bars	mt	12mm	1X4	1.88			13.86	
Door - Ring	mt	8mm	1X14	0.90			4.98	
						Weight in kgs	264.37	
						Weight in Tonne	0.26	

Total Qty Work Done	**0.26**	**Ton**
Last Bill Qty	**29.21**	
Schedule B Qty	**29.80**	
Qty Payable in this bill	**0.26**	**Ton**

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QUALITY CONSULTANTS & CIVIL ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Description	Unit	Dia	No.	Length	Breadth	Depth	Quantity	Remarks
Reinforcement Work								
Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. . FOR TMT Bars Fe-500 - Second Floor								
Second Floor Lintels								
Window- Main bars	mt	12mm	4X33	2.60			304.76	
Window - Ring	mt	8mm	20X33	0.90			234.63	
Door - Main bars	mt	12mm	1X4	1.80			6.39	
Door - Ring	mt	8mm	1X14	0.90			4.98	
Ventilators - Main bars	mt	12mm	4X10	0.90			31.97	
Ventilators - Ring	mt	8mm	8X10	0.90			28.44	
Bath room Doors							51.15	
Main bars	mt	12mm	4X12	1.2			42.66	
Rings	mt	8mm	10X12	0.9			704.98	
						Weight in kgs	0.70	
						Weight in Tonne	**0.70**	**Ton**
						Total Qty Work Done	**25.75**	
						Last Bill Qty	**25.80**	
						Schedule B Qty	**0.65**	
						Reserved Qty	**0.05**	**Ton**
						Qty Payable in this bill		

QUALITY CONSULTANTS ENGINEERS Bangalore

Consultant Representative

Contractor Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Description	Unit	Dia	No.	Length	Breadth	Depth	Quantity	Remarks
Reinforcement Work								
Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications.. FOR TMT Bars Fe-500 - Third Floor								
Third Floor Columns								
C1	mt	12mm	1x8	3.6			28.80	
C2	mt	12mm	4x8	3.60			115.20	
C5	mt	16mm	48x4	3.60			691.20	
	mt	12mm	48x8	3.60			1382.84	
C6	mt	16mm	4x10	3.60			144.00	
	mt	12mm	4x2	3.60			28.80	
C7	mt	16mm	6x4	3.60			86.40	
	mt	12mm	6x8	3.60			172.80	
C8	mt	20 mm	2x12	3.60			86.40	
Ring 200c/c								
C1	mt	8mm	1x2x17	1.08			36.72	
C2	mt	8mm	4x2x17	1.08			146.88	
C5	mt	8mm	48x17	1.60			1305.60	
	mt	8mm	48x17	0.75			612.00	
	mt	8mm	48x17	0.35			285.60	
C6	mt	8mm	4x17	1.60			108.80	
	mt	8mm	4x17	0.75			51.00	
	mt	8mm	4x17	0.35			23.80	
C7	mt	8mm	6x17	1.60			163.20	
	mt	8mm	6x17	0.75			76.50	
	mt	8mm	6x17	0.35			35.70	
C8	mt	8mm	2x17	1.60			54.40	
	mt	8mm	2x17	0.75			25.50	
	mt	8mm	2x17	0.35			11.90	
Second Floor Roof Slab & Beam								
B (1,2 & 3) (200x450)								
Top & Bottom	mt	12mm	2x2	30+28.4=58.4			233.60	
Ring 150c/c & 230c/	mt	8mm	324	1.16			375.84	
B4 (150x450) Top & Bottom	mt	16mm	2x2	7.00			28.00	
Ring 150c/c & 230c/	mt	8mm	42	1.11			46.62	
B5 (300x450) Top & Bottom	mt	16mm	3x2	30+28.4=58.4			350.40	
Extra Top	mt	16mm	2x2	3.30			13.20	
	mt	20mm	2x5	5.00			50.00	
	mt	20mm	2x2	4.30			17.20	
Bottom	mt	20mm	2x7	5.00			70.00	
Pin Rod	mt	20mm	12	0.3			3.60	
Ring 125c/c & 200c/c	mt	10mm	364	1.36			495.04	
	mt	8mm	100	1.36			136.00	
B7 (300x450) Top	mt	16mm	3x1	30+28.4=58.4			175.20	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Bottom	mt	20mm	3x2	7.9			47.40
	mt	16mm	3x1	30+16.8=46.8			140.40
Extra Top	mt	20mm	3x2	3.30			19.80
	mt	20mm	3x5	5.00			75.00
	mt	20mm	3x4	4.30			51.60
Bottom	mt	25mm	3x1	5.00			15.00
	mt	20mm	3x7	5.00			105.00
Pin Rod	mt	20mm	12	0.30			3.60
Ring 125c/c & 230c/c	mt	10mm	400	1.36			544.00
	mt	8mm	38	1.36			51.68
B6 (200x450) Top & Bottom	mt	16mm	2x2	7.00			28.00
Ring - 150 c/c & 230 c/c	mt	8mm	42	1.11			46.62
B8 (200x450) Top & Bottom	mt	16mm	2x2	4.35			17.40
Ring 150c/c & 230c/c	mt	8mm	23	1.16			26.68
B9 (200x450) Top & Bottom	mt	16mm	4x2	2.6			20.80
Ring 150c/c	mt	8mm	17	1.16			19.72
B10 (200x450) Top & Bottom	mt	16mm	2x2	4.1			16.40
Extra bottom	mt	16mm	2x2	2.4			9.60
Ring - 150 c/c & 230 c/c	mt	8mm	21x2	1.16			48.72
B12A (200x450) Top & Bottom	mt	12mm	2x2	0.95			3.80
Ring 150c/c & 230c/c	mt	8mm	4	1.16			4.64
B13 (150x450) Top & Bottom	mt	16mm	4x4	4.1			65.60
Bottom	mt	12mm	2x4	4.1			32.80
Ring 150c/c	mt	8mm	21x4	1.11			93.24
B14 (200x450) Top & Bottom	mt	12mm	2x2	29.5			118.00
Bottom	mt	16mm	2	2.2			4.40
Ring 150c/c & 230c/c	mt	8mm	148	1.16			171.68
B15 (200x450) Top & Bottom	mt	16mm	2x2	7.1			28.40
Extra Top	mt	12mm	2	2.05			4.10
Bottom	mt	16mm	2	4.00			8.00
Pin Rod	mt	20mm	6	0.30			1.80
Ring 150c/c & 230c/c	mt	8mm	36	1.16			
B14A (200x450) Top & bottom	mt	12mm	2x2	23.00			
Ring 150c/c & 230c/c	mt	8 mm	126	1.16			
B14B (150x450) Top & Bottom	mt	12mm	2x2	30+28.4=58.4			233.60
Extra Top	mt	20mm	2x2	4.10			16.40
Bottom	mt	20mm	2	5.40			10.80
Pin Rod	mt	20mm	6	0.30			0.80
Ring 150c/c & 230c/c	mt	8mm	324	1.11			359.64
B16 (200x450) Top & Bottom	mt	16mm	2x2	16.80			67.20
Extra Top	mt	20mm	2	5.00			10.00
	mt	20mm	2	4.00			8.00
	mt	12mm	2	2.75			5.50
Bottom	mt	20mm	2	4.20			8.40
Pin Rod	mt	20mm	6	0.30			1.80
Ring 150c/c & 230c/c	mt	8mm	76	1.16			88.16
B16-A (200x450) Top & Bottom	mt	16mm	2x2	5.70			22.80
Ring - 150 c/c & 230 c/c	mt	8mm	28	1.16			32.48
B17 (300x450) Top	mt	16mm	2x2	16.80			100.80
Extra top	mt	25mm	3	2.50			7.50
	mt	16mm	3	3.60			10.80
Bottom	mt	20mm	3	5.30			15.90
Pin Rod	mt	20mm	8	0.30			2.40
Ring 100c/c & 150c/c	mt	10mm	42	1.36			57.12
	mt	8mm	58	1.36			78.88
B18 (300x450) Top & Bottom	mt	16mm	3x2x7	16.80			705.60
Extra top	mt	16mm	2x7	2.50			35.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಮೋಜಣಿ)
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	mt	16mm	3x7	3.80			79.80	
	mt	16mm	2x7	3.00			42.00	
Bottom	mt	16mm	2x7	5.30			74.20	
Pin Rod	mt	20mm	12x7	0.30			25.20	
Ring 150c/c & 230c/c	mt	8mm	89x7	1.36			847.28	
B18A (300x450) Top & Bottom	mt	16mm	3x2x5	16.80			504.00	
Extra top	mt	20mm	2x5	2.50			25.00	
	mt	16mm	2x5	3.80			38.00	
Bottom	mt	16mm	2x5	5.30			53.00	
Pin Rod	mt	20mm	8x5	0.30			12.00	
Ring 150c/c & 230c/c	mt	8mm	89x5	1.36			605.20	
B19 (300 x 450) Top & Bottom	mt	16mm	3x2	16.80			100.80	
Extra top	mt	20mm	2	2.50			5.00	
	mt	20mm	2	3.80			7.60	
Bottom	mt	16mm	2	5.30			10.60	
Pin Rod	mt	20mm	8	0.30			2.40	
Ring 100c/c & 150c/c	mt	8mm	118	1.36			160.48	
B20 (300x450) Top & Bottom	mt	16mm	3x2	16.80			100.80	
Extra top	mt	16mm	2	2.50			5.00	
	mt	20mm	2	3.80			7.60	
	mt	16mm	2	3.00			6.00	
Bottom	mt	16mm	2	5.30			10.60	
Pin Rod	mt	20mm	12	0.30			3.60	
Ring 150c/c & 230c/c	mt	8mm	89	1.36			121.04	
B21 (150x450) Top & Bottom	mt	12mm	2x2	4.10			16.40	
Ring - 150 c/c	mt	8mm	21	1.11			23.31	
B22 (200x450) Top & Bottom	mt	16mm	2x2	7.40			29.60	
Extra	mt	20mm	2	1.90			3.80	
Pin Rod	mt	20mm	3	0.30			0.90	
Ring 150c/c	mt	8mm	45	1.16			52.20	
B23 (200x450) Top & Bottom	mt	12mm	2x2	2.95			11.80	
Ring 150c/c	mt	8mm	15	1.16			17.40	
B24 (300x450) Top & Bottom	mt	16mm	3x2	16.80			100.80	
Extra top	mt	25mm	3	2.50			7.50	
	mt	16mm	3	3.80			11.40	
Bottom	mt	20mm	3	5.30			15.90	
Pin Rod	mt	20mm	8	0.30			2.40	
Ring 150c/c & 230 c/	mt	8mm	89	1.36			121.04	
B25 (300x450) Top & Bottom	mt	16mm	3x2	8.70			52.20	
Extra top	mt	12mm	2	1.80			3.60	
	mt	20mm	2	2.80			5.60	
Ring 150c/c & 230 c/	mt	8mm	41	1.36			55.76	
B26 (200x450) Top & Bottom	mt	16mm	2x2	16.80			67.20	
Extra Top	mt	20mm	2	2.50			5.00	
	mt	20mm	2	3.80			7.60	
	mt	16mm	2	3.00			6.00	
Extra bottom	mt	20mm	2	5.30			10.60	
Pin Rod	mt	20mm	12	0.30			3.60	
Ring 100 c/c, 150c/c & 230	mt	8mm	76	1.16			88.16	
Slab :								
Grid 1 to 2 - A & G								
Main 150 c/c	mt	10mm	81	4.40			356.40	
	mt	10mm	32	5.90			188.80	
Dist 150 c/c	mt	8mm	20	16.80			336.00	
	mt	8mm	11	5.10			56.10	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Extra - A	mt	10mm	20	2.50			50.00
	mt	8mm	12	5.50			66.00
B	mt	10mm	20	3.50			70.00
	mt	8mm	12	5.50			66.00
C	mt	20 mm	20	3.50			70.00
	mt	8mm	12	5.50			66.00
F	mt	10mm	20	3.00			60.00
	mt	8mm	12	5.50			66.00
Chair	mt	8mm	16	1.00			16.00
Grid 2 to 12 - A & G Main	mt	10mm	81x8	4.40			2851.20
Dist	mt	8mm	20x8	16.80			2688.00
Extra - A	mt	10mm	20x8	3.00			480.00
	mt	8mm	12x8	5.50			528.00
B	mt	10mm	20x8	3.50			560.00
	mt	8mm	12x8	5.50			480.00
C	mt	10mm	20x8	3.50			528.00
	mt	8mm	12x8	5.50			560.00
F	mt	10mm	20x8	3.00			480.00
	mt	8mm	12x8	5.50			528.00
Chair	mt	8mm	16x8	1.00			128.00
Grid - 10 to 11 - C & G Main	mt	10mm	44	3.70			162.80
Dist	mt	8mm	18	6.50			117.00
Grid -10 & 14 - A to C Main	mt	10mm	59x2	4.40			519.20
Dist	mt	8mm	20x2	8.80			352.00
Extra - A	mt	10mm	20x2	3.00			120.00
	mt	8mm	12x2	5.50			132.00
B & C	mt	10mm	20x2x2	3.50			280.00
	mt	8mm	12x2x2	5.50			264.00
Chair	mt	8mm	12x2x2	1.00			48.00
Grid 14 to 21- A & G Main	mt	10mm	81x7	4.40			2494.80
Dist	mt	8mm	20x7	16.80			2352.00
Extra - A	mt	10mm	20x7	3.00			420.00
	mt	8mm	12x7	5.50			462.00
B	mt	10mm	20x7	3.50			490.00
	mt	8mm	12x7	5.50			462.00
C	mt	10mm	20x7	3.50			490.00
	mt	8mm	12x7	5.50			462.00
F	mt	10mm	20x7	3.50			490.00
	mt	8mm	12x7	5.50			462.00
Chair	mt	8mm	16x7	1.00			112.00
Main Staircase							
Main Rod	mt	12mm	43	3.84			165.12
Distribution	mt	10mm	26	6.4			166.40
7th Flait	mt	12mm	10	4.9			49.00
	mt	12mm	10	2.35			23.50
	mt	12mm	10	2.40			24.00
	mt	12mm	10	2.10			21.00
	mt	10mm	23	1.50			34.50
	mt	12mm	10x2	5.85			117.00
8th Flait	mt	10mm	38x2	1.50			114.00
	mt	12mm	10	2.40			24.00
9th Flait	mt	12mm	10	4.90			49.00
	mt	10mm	14	1.50			21.00
Z beam (300x450)	mt	16mm	2x3	7.10			42.60

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Extra	mt	16mm	2x2	1.50			6.00
Ring 125 c/c & 150 c/c	mt	8mm	48	1.36			65.28
	mt	8mm	17672	0.39			6892.20
	mt	10mm	11428	0.62			7085.42
	mt	12mm	2874.9	0.89			2558.63
	mt	16mm	4118.1	1.58			6506.57
	mt	20mm	748.9	2.47			1849.78
	mt	25mm	42	3.85			161.70
					Sub Total - A		25054.30
Third Floor Lintels							
Window- Main bars	mt	12mm	4X33	2.60			304.76
Window - Ring	mt	8mm	20X33	0.90			234.63
Door - Main bars	mt	12mm	1X4	1.80			6.39
Door - Ring	mt	8mm	1X14	0.90			4.98
Ventilators - Main bars	mt	12mm	4X10	0.90			57.60
Ventilators - Ring	mt	8mm	8X10	0.90			108.00
Bath room Doors							776.77
Main bars	mt	12mm	4X12	1.2			25831.07
Rings	mt	8mm	10X12	0.9			25.83
					Sub Total - B		
					Weight in kgs		
					Weight in Tonne		
					Total Qty Work Done	**25.83**	**Ton**
					Qty Payable in this bill	**25.83**	**Ton**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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25.80

85.80

CIVIL QUALITY CONSULTANTS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Description	Unit	Dia	No.	Length	Breadth	Depth	Quantity	Remarks
Reinforcement Work								
Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 - Terrece Floor								
Terrace Floor Columns								
C2	mt	12mm	4x8	3.20			90.93	
C5	mt	16mm	3x4	3.60			68.26	
	mt	12mm	3x8	3.60			76.72	
C7	mt	16mm	1x4	3.60			22.75	
	mt	12mm	1x8	3.60			25.57	
Ring 200c/c								
C1	mt	8mm	5x2x17	1.08			72.52	
C5	mt	8mm	3x17	1.60			32.23	
	mt	8mm	3x17	0.75			15.11	
	mt	8mm	3x17	0.35			7.05	
C7	mt	8mm	1x17	1.60			10.74	
	mt	8mm	1x17	0.75			5.04	
	mt	8mm	1x17	0.35			2.35	
Beams-B2								
B1 (200X450) T & B	Mt	16mm	2X2	8.30			52.46	
Top extra bar	Mt	12mm	2X2	3.40			12.08	
Ring - 150 & 230 C/C	Mt	8mm	38	1.16			17.41	
Beams-B2								
B2 (200X450) T & B	Mt	16mm	2X2	8.30			52.46	
Ring - 150 C/C	Mt	8mm	45	1.16			20.62	
Beams-B3								
B3 (200X450) T & B	Mt	16mm	2X2	8.30				
Ring - 150 & 230 C/C	Mt	8mm	38	1.16				
Beams-B4								
B4 (200X450) T & B	Mt	16mm	3X2	8.40			79.63	
Top extra bar	Mt	12mm	2X2	2.80			9.95	
Ring - 150 & 230 C/C	Mt	8mm	40	1.16			18.33	
Beams-B5								
B5 (200X450) T & B	Mt	16mm	2X2	8.40			53.09	
Top extra bar	Mt	12mm	2X2	2.92			10.37	
Ring - 150 C/C	Mt	8mm	40	1.16			18.33	
Beams-B5								
B5 (200X450) T & B	Mt	16mm	2X2	3.30			20.86	
Ring - 150 C/C	Mt	8mm	19	1.16			8.71	
Beams-B4								

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B4 (200X450) T & B	Mt	16mm	3X2	8.40			79.63	
Top extra bar	Mt	12mm	2X2	2.80			14.92	9.4%
Ring - 150 & 230 C/C	Mt	8mm	40	1.16			18.33	
Slab Reinforcement								
Main bar - A reinforcement	Mt	10mm	45	6.60			183.25	
Top bar	Mt	10mm	45	1.43			39.70	
Top bar	Mt	10mm	45	1.13			31.37	
Main bar - B reinforcement	Mt	8mm	33	6.70			87.33	
	Mt	8mm	33	1.78			23.20	
	Mt	8mm	33	1.83			23.85	
Main bar - C reinforcement	Mt	8mm	90	1.72			61.15	
	Mt	8mm	24	9.75			92.43	
Third Floor Lintels								
Window- Main bars	mt	12mm	4X33	2.60				
Window - Ring	mt	8mm	20X33	0.90				
Door - Main bars	mt	12mm	1X4	1.80			1.42	
Door - Ring	mt	8mm	1X14	0.90			31.97	
Ventilators - Main bars	mt	12mm	4X10	0.90			28.44	
Ventilators - Ring	mt	8mm	8X10	0.90				
Bath room Doors							51.15	
Main bars	mt	12mm	4X12	1.2			42.66	
Rings	mt	8mm	10X12	0.9			2230.02	2225.5
					Weight in kgs		2.23	2.22
					Weight in Tonne		2.23	Ton
					Total Qty Work Done		**2.23**	**Ton**
					Qty Payable in this bill		**2.20**	**Ton**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ನಿರ್ಮಾಣ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)
11/2

Asst.Executive Engineer
RR Nagara Division (Project)

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